

# Interference of 5G base stations to hybrid energy earth stations

Moreover, the interference factors of the 5G system to the FSS mainly include angle between the main axis of the FSS earth station antenna and the direction of the base station ...

Some countries and regions are currently considering 5G services in the 3.5 GHz band, and the widespread deployment of 5G systems may cause interference to Fixed Satellite Service ...

Abstract In this study, we investigated the coexistence of the 5G communication network with a fixed-satellite service (FSS) in the 3.5 GHz and 26 GHz frequency bands. We analyzed an ...

In order to minimize the detrimental interference for the FSS to allowable levels, regional exclusion zones of maximum radiated power in 5G base stations (BS) are proposed and evaluated.

In this paper, the coexistence between fifth generation (5G) network and fixed satellite service (FSS) is investigated. To reduce the interference between 5G base stations (BSs) and FSS ...

In this paper, we investigate the coexistence of the 5G communication network with a fixed-satellite service (FSS) in the 3.5 GHz and 26 GHz frequency bands. We analyze a distance ...

The results of the study outline the protection distances required for the coexistence of 5G systems and FSS ground stations at different spacing frequencies and the options of interference mitigation ...

Co-frequency interference: 5G base stations and satellite earth stations require a certain protection distance to avoid interference from 5G signals to satellite earth stations. Both adjacent frequency ...

We analyzed an angular protection scheme for the FSS Earth station (ES) and 5G base stations (BSs). In addition, we defined the fixed BS-ES relative location, relative distance, and angular changes.

Widespread adoption of 5G systems may interfere with fixed satellite service (FSS) earth stations operating in nearby frequency bands. Some countries and regions are currently considering ...

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